

REPLACEMENT SHEET

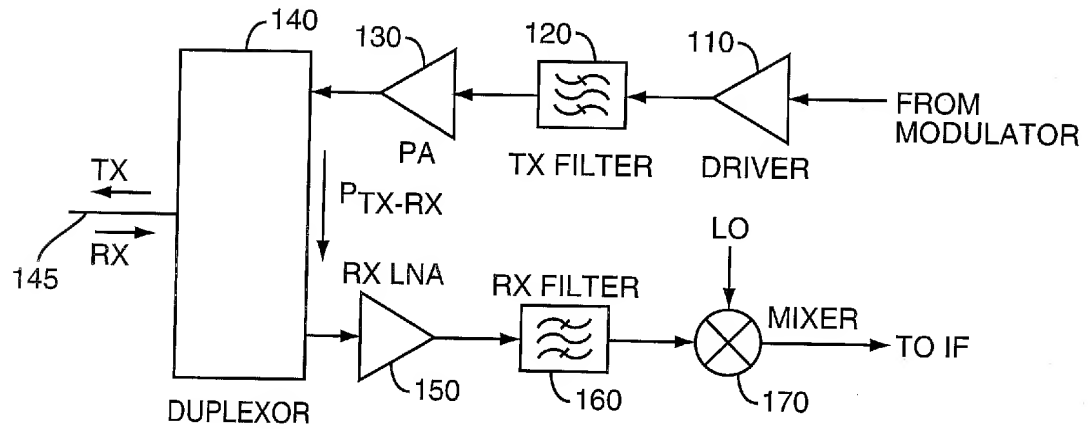


FIG. 1
PRIOR ART

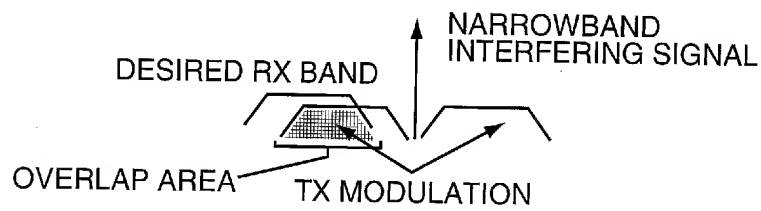


FIG. 2
PRIOR ART

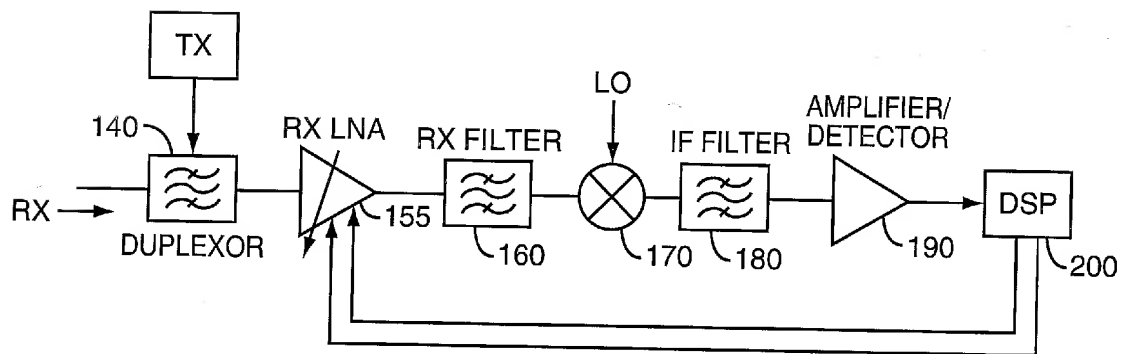


FIG. 3

REPLACEMENT SHEET

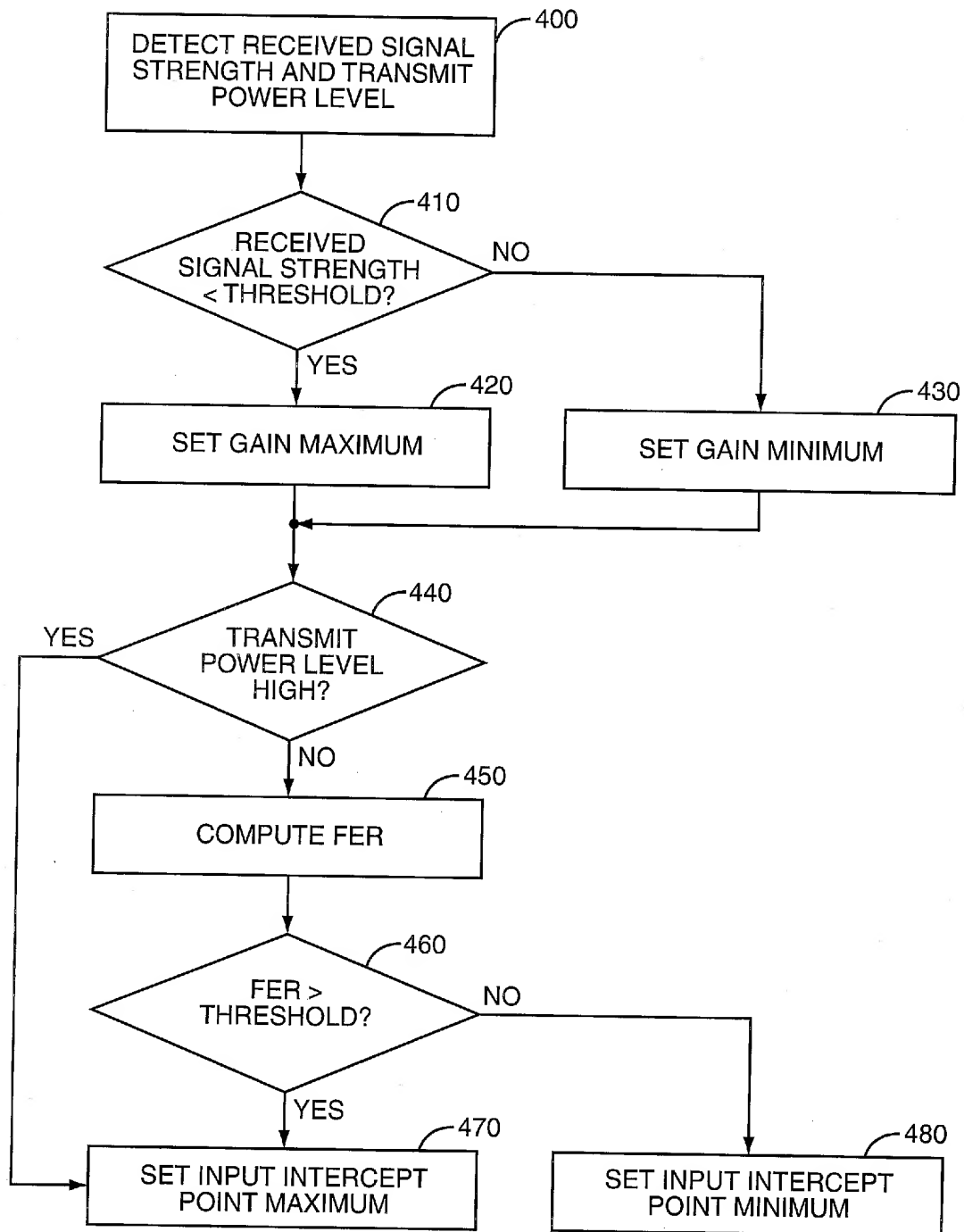
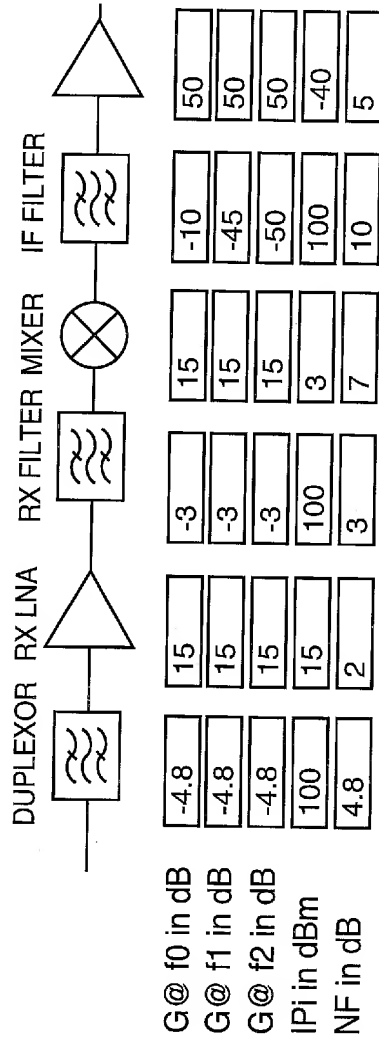


FIG. 4

TITLE:

Typical IS-95 CDMA Receiver, Operational State 1



System BW [kHz]

Eb/No Required [dB]

Processing Gain [dB]

Traffic Ch. Offset [dB]

Calculated System Parameters

System NF = 7.65 dB

System IPI = -5.00 dBm

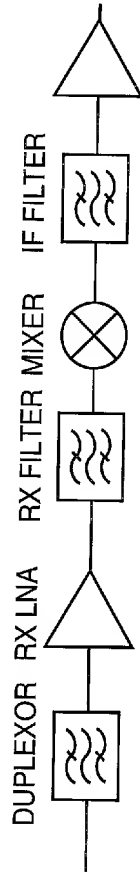
Sensitivity = -106.32 dBm

System Gain = 62.2 dB

FIG. 5A

TITLE:

Typical IS-95 CDMA Receiver, Operational State 2



G@ f0 in dB
G@ f1 in dB
G@ f2 in dB
IPI in dBm
NF in dB

-4.8	15	-3	15	-10	50
-4.8	15	-3	15	-45	50
-4.8	15	-3	15	-50	50
100	5	100	3	100	-40
4.8	2	3	7	10	5

System BW [kHz]	1250
Eb/No Required [dB]	4.5
Processing Gain [dB]	21.07
Traffic Ch. Offset [dB]	-15.60

Calculated System Parameters

FIG. 5B

CDMA Receiver System Calculator

VERSION 1.10

TITLE:

Typical IS-95 CDMA Receiver, Operational State 3

DUPLEXOR

RX LNA

RX FILTER

MIXER

IF FILTER

G@ f0 in dB

G@ f1 in dB

G@ f2 in dB

IPI in dBm

NF in dB

-4.8

-4.8

-4.8

100

4.8

-5

-5

-5

5

22

-3

-3

-3

100

3

15

15

15

3

7

-10

-45

-50

100

10

50

50

50

-40

5

Calculated System Parameters

System BW [kHz]

Eb/No Required [dB]

Processing Gain [dB]

Traffic Ch. Offset [dB]

1250

4.5

21.07

-15.60

System NF = 27.6 dB

System IPI = 8.65 dBm

Sensitivity = -86.323 dBm

System Gain = 42.2 dB

FIG. 5C

CDMA Receiver System Calculator									
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: right;"> <p>VERSION 1.10</p> <p>TITLE:</p> <p>Typical IS-95 CDMA Receiver, Operational State 4</p> </div> <div style="text-align: center;"> <p>DUPLEXOR RX LNA RX FILTER MIXER IF FILTER</p> </div> </div>									
G@ f0 in dB	-4.8	-5	-3	15	-10	50			
G@ f1 in dB	-4.8	-5	-3	15	-45	50			
G@ f2 in dB	-4.8	-5	-3	15	-50	50			
IPI in dBm	100	15	100	3	100	-40			
NF in dB	4.8	22	3	7	10	5			

System BW [kHz] 1250

Eb/No Required [dB] 4.5

Processing Gain [dB] 21.07

Traffic Ch. Offset [dB] -15.60

Calculated System Parameters

System NF = 27.6 dB

System IPI = 13.7 dBm

Sensitivity = -86.323 dBm

System Gain = 42.2 dB

FIG. 5D